

Cannabis/Ganja and the the Agriculture Industry – Opportunities and Risk

**7th Annual Growth and Resilience Conference - An
appropriate and sustainable model for health care in
the ECCU/OECS**

**Agile Infrastructure, Traditional Medicine and
Medicinal Cannabis**

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Content - Context

Caribbean the 4th Logistic Space

Climate Change

Caribbean National Visions and SDGs

Health Wealth and Food Security

Self Reliance and Collective Security

“A country and a people that become self-sufficient by the development of agriculture can look forward with confidence to the future. Agriculture is not only the chief among those fundamental and ancient tasks which have been essential to the survival of mankind, but also ranks first among the prerequisites to industrial and other developments. Only when a solid agricultural base has been laid for Our country’s commercial and industrial growth can We ensure the attainment of the ultimate goal of Our development programme, namely, a high standard of living for Our people. (College of Agriculture and Mechanical Arts 1958, HIM Selected Speeches, IEMI 1967, pg. 6).”

Table 1: Types of SEZs Being Contemplated for Jamaica

Types	Example	Location	Eligible Activities (being contemplated)	Target Market	Examples in other parts of the world
Specialized SEZs	Commodity Port	St. Thomas, St. Catherine, and Clarendon	Petrochemical and other heavy industry; dry and wet bulk	Americas, Asia	Rotterdam
	Dry Dock	Clarendon, Kingston	Maintenance and repair of ships, boats, and other watercraft	North Atlantic, Caribbean, US Gulf	Dubai, Singapore, Malta, Bahamas
	Airport-based	Vernamfield, Clarendon	Air cargo trade and transshipment, maintenance, repair and operations (MRO)	Global	Morocco (MRO), Singapore, Dubai
		Norman Manley International	Air cargo trade and transshipment; passenger	Americas	Miami, Amsterdam, New York, London
		Sangster International	Air cargo trade and transshipment; passenger	Americas	Miami, Amsterdam, New York, London
	Port-based	Kingston Container Terminal and Kingston Wharves	Merchandise trade, semi-finished products and transshipment	Asia(scrap metals), south America(ethanol), Europe (tyres), CARICOM	Marinel, Colon, Singapore,
		Portland Bight	Heavy industries and commodities	Americas	Singapore
	Technology Park	Country-wide	High technology and science-based industries	Domestic and export	Singapore
Logistics Park	Caymanas SEZ	Caymanas, St. Catherine	Light manufacturing and assembly	Americas	Panama Pacifico
	Garmex and other SEZs (such as Kingston and Montego Bay Free Zone)	Kingston	Light manufacturing and assembly, BPO	Americas	Maquiladoras (Mexico), Costa Rica



**Context – Sustainable
Development Paradigm and the
Integrated Assessment
Approach – water, food, health
and energy security**



Claim - Medical Marijuana – A Zero Sum Game

Necessary but not sufficient
– Sub-optimal outcome

- Israel/America capital recovery on research from 1950s

At best Medical Marijuana import substitution model – high levels of intellectual and economic dishonesty among those advancing Medical Marijuana

Need to develop grounded parallel industry focusing on wellness and therapeutics

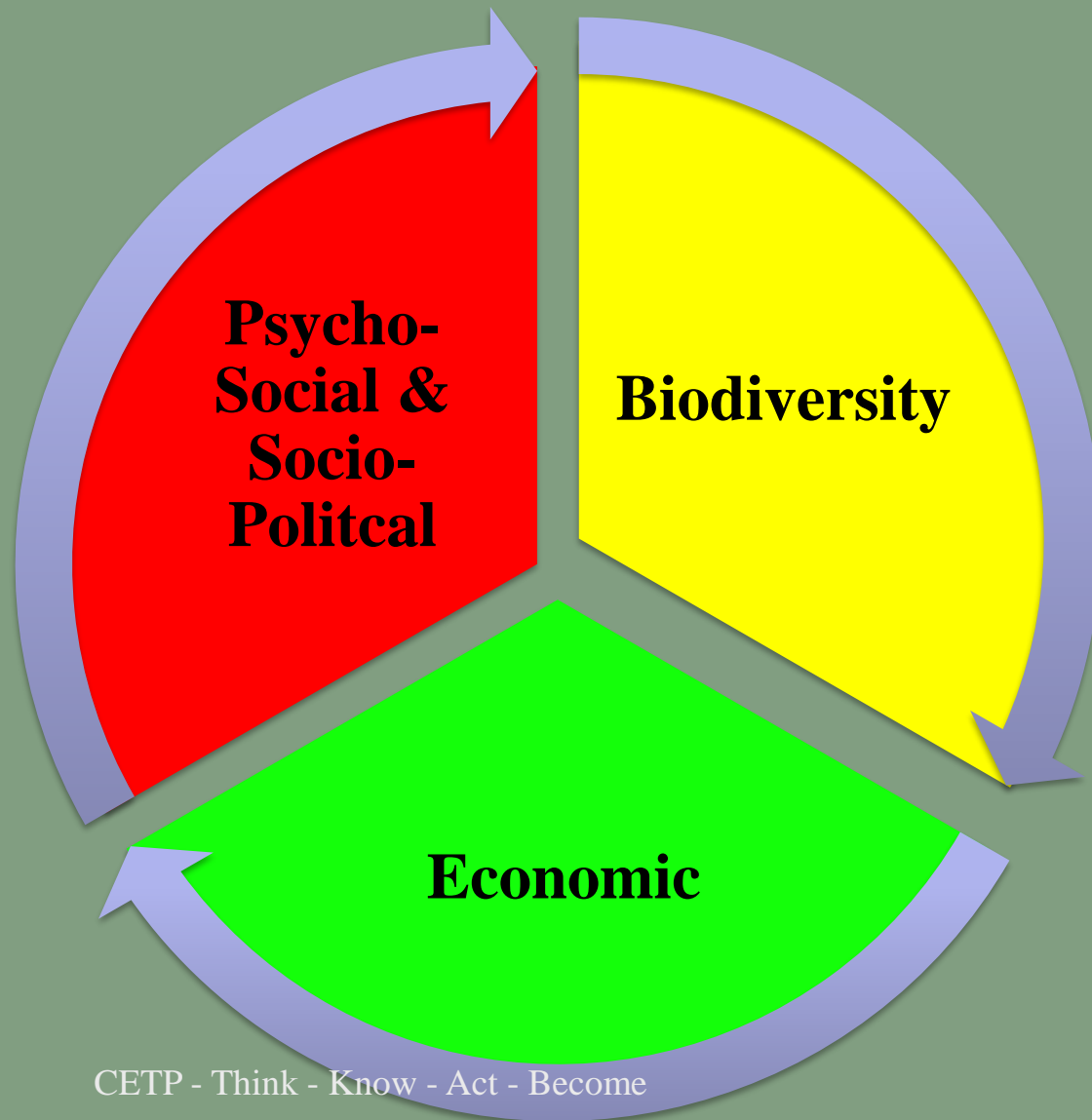
Need a regional approach to truly benefit while reducing negative externalities – reduce attractiveness of illegal trade

Social Agro-preneurship –
Social Enterprise Win- Win

SUSTAINABLE DEVELOPMENT GOALS



Integrated Assessment Approach



Economic Impact

Illegal

- High cost of fighting trade – criminalization of unemployed youth (most valuable natural resource)
- Significant loss of enterprise opportunities
- Loss of revenue for state (tax ect)
- High operations cost and Lower income streams from sale of output – **limited value chain**
- High import bill for inputs used – seeds, fertilizers

legal

- Increased multiplier effect from diversification of industry
- Reduce dependency on tourism while supporting alternative tourism – wellness/health tourism
- Increase flow of foreign exchange and other revenues
- Greater distribution and redistribution of wealth across all classes
- IP benefits

Psycho-Social Impact

Illegal

- Criminalization of the youth – further fuels potential crime
- Low self esteem among children within communities – parents are criminals?
- Continued absence of fathers from home due to long stay in the fields
- Lack of trust between citizenry and state – lack of support for CBP
- Isolation/stigmatization of communities

legal

- Reallocation of resources to support youth programmes
- Increased self esteem and peace of mind among population
- Improved relationship between citizenry and state
- Strengthening of social political and economic capital among CBOs
- Less reliance of state resources


Biodiversity Impact

Illegal

- Loss of flora and fauna (endemic species)
- Habitat destruction of endemic species
- Potential pollution of watersheds
- Increased use of poisonous pesticides and fertilizers – destroys ecology
- Loss of genetic and genome resources

Legal

- Preservation of habitat, reduce threat to endemic species
- **Restoration of mined out areas**
- Rehabilitation of soil
- Support for organic agriculture
- support (technical assistance) and monitor farming practices
- Support for nature and wellness sector



“If all fossil fuels and their derivatives, as well as the deforestation of trees for paper and agriculture are banned from use in order to save the planet, and reverse the greenhouse effect: then there is only one known renewable natural resource able to provide the overall majority of our paper, textiles and food, meet all the world’s transportation, home and industrial energy needs, reduce pollution, rebuild the soil and clean the atmosphere – all at the same time – our old stand-by that did it all before: Cannabis Hemp... Marijuana”

Jack Herrer 1985 & 1991 – The Emperor Wears no Clothes





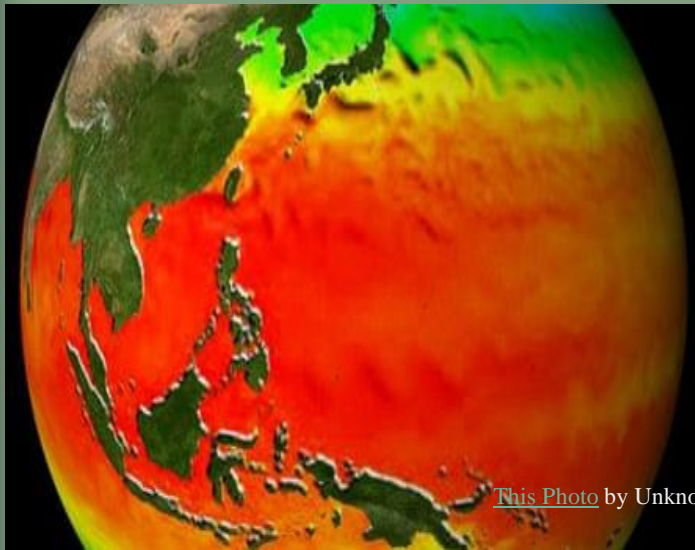
Food, water and health Security

Research revealed positive indications when using cannabis for asthma, glaucoma, nausea from chemotherapy, anorexia, and tumors, as well as a general use antibiotic; epilepsy, Parkinson's disease, multiple sclerosis, dystrophy, and tumors



The Cannabis hemp seed is a complete source of vegetable protein... The composition of the seed is unique in the vegetable kingdom. 65% of hemp seed's protein content is in the (Edestin) edible form...is ready available in the form found in human blood plasma – the fluid portion of blood which supplies nutrients to tissue --- hemp seed oil (30% of the seed) lower in saturated fats than any other cooking oil including soya beans and canola.

Climate Change Resilience and Energy security



[This Photo by Unknown A](#)

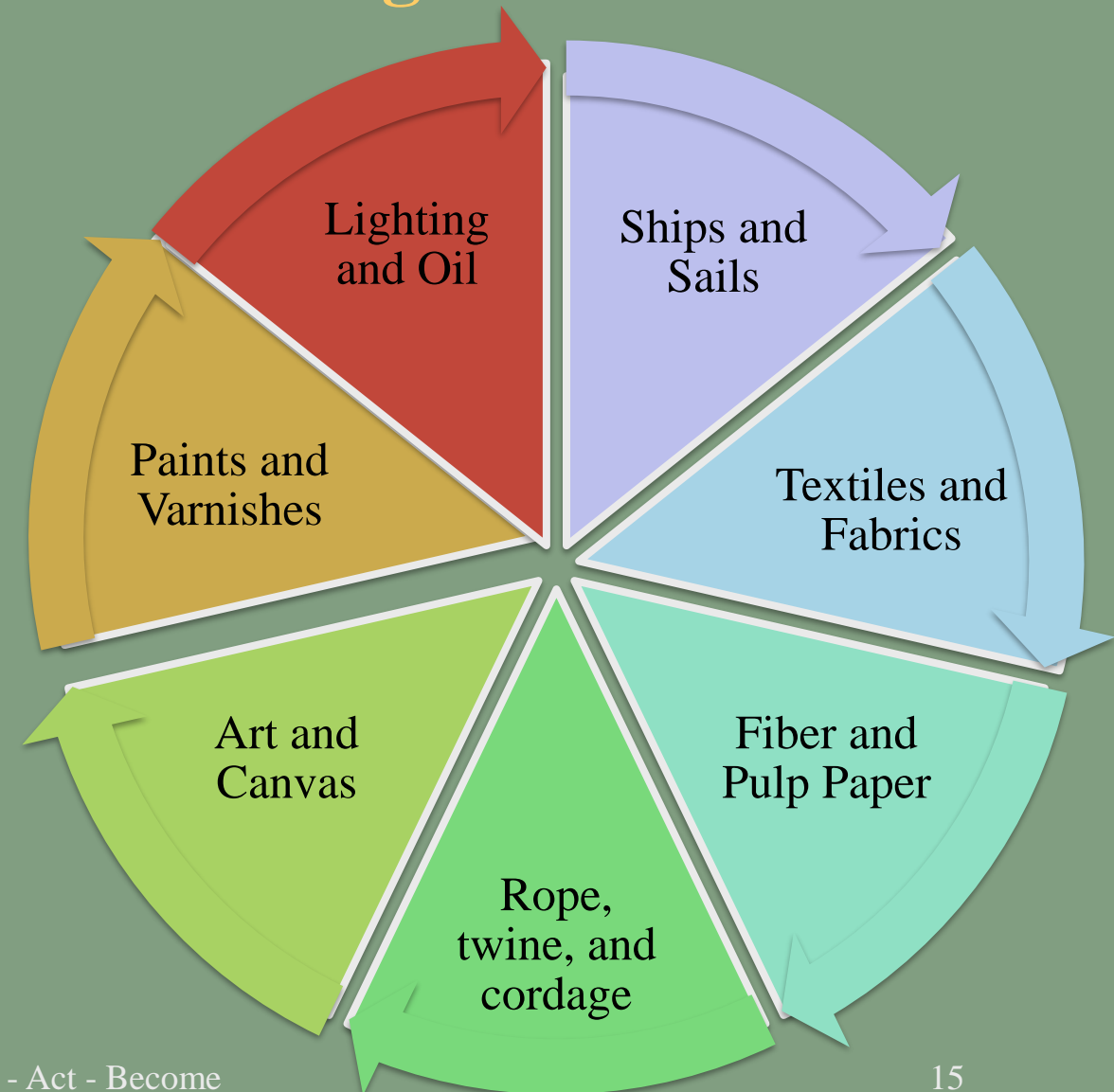
CETP - Th

When considered on a planet-wide, soil-wide, climate-wide basis, cannabis is at least four times and, more likely, 50 times richer in renewable biomass/cellulose potential than its nearest rivals on the planet – cornstalks, trees, **sugarcane**, kenaf, etc

When hemp is grown for Biomass as an energy crop, CO₂ is breathed in by the living plants to build cell structure; the leftover oxygen is breathed out replenishing earth's air supply, then when the carbon rich hemp biomass is burned for energy the CO₂ is released back into the air. Eco cycle is balanced (environmental balance)

Summary of Uses – Ganja Agro Enterprises - Much more than smoking

Biomass Energy
Food Oils and Protein
Building Materials and Housing
Economic stability, profit and free trade
Medicine
Smoking, Leisure and Creativity



Caribbean – Potential Ganja Agro Enterprises



Caribbean have both mainland countries and islands

- Mainland (Belize, Suriname, Guyana) – Industrial Hemp and components requiring large acreage (Male of specie)
- Island - niche and value added – neutraceuticals and functional foods (female of species)



Business Model Components

How will the sector create value?

For whom will the Sector create value?

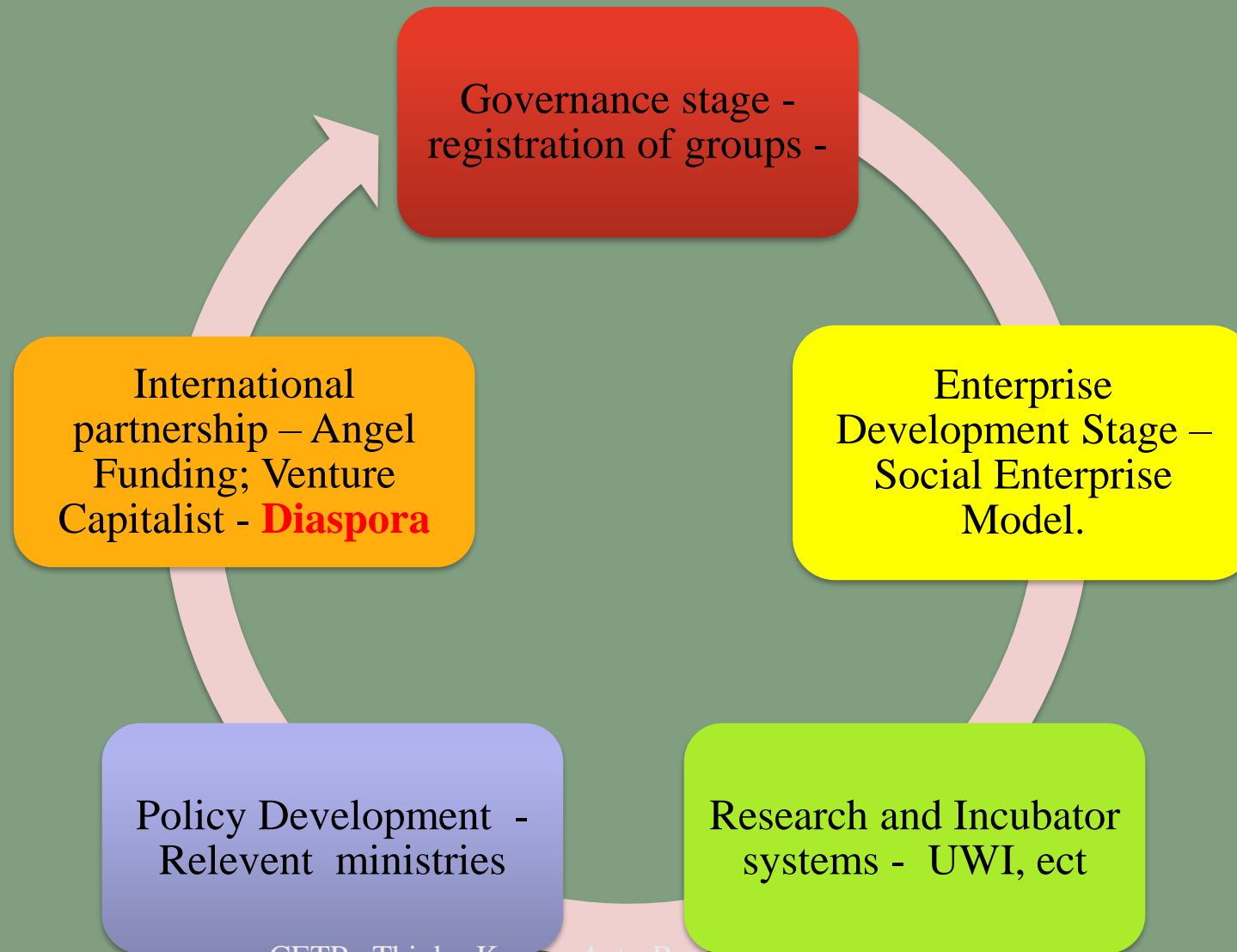
What is the sector internal source of advantage?

How will the sector differentiate itself?

How will the sector sustain its operations (make money?)

What are the sector's time, scope, size and ambition?

Social Value Creation Institutional Framework – Ganja Industry



CETP - Think - Know - Act - Become



Conclusion

- Medical marijuana is necessary but not sufficient
- The region have strategic advantage in both male and female – medical, recreational and industrial
- Basis to push integrated agricultural practices – reduce regional import bill

Give Thanks

One hand can't clap and many hands mek the work lighter- Love in the house Itinually

